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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/797,859	03/10/2004	Gregory P. Frankiewicz	2509	3717
7617 7590 10/19/2006		EXAMINER		
BRUZGA & ASSOCIATES			PENG, CHARLIE YU	
11 BROADWAY, SUITE 715 NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2883	
			DATE MAILED: 10/19/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/797,859	FRANKIEWICZ ET AL.
Office Action Summary	Examiner	Art Unit
	Charlie Peng	2883
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>03</u> .  2a)    This action is <b>FINAL</b> .    2b)    Th  3)    Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal mat	• •
Disposition of Claims		
4)  Claim(s) 1-35 is/are pending in the applicatio 4a) Of the above claim(s) 36-51 is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-35 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examir 10) ☑ The drawing(s) filed on 10 March 2004 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre  11) ☐ The oath or declaration is objected to by the Examiration.	a)⊠ accepted or b)⊡ obe e drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date	8) 5) Notice of 6) Other:	Informal Patent Application (PTO-152)

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#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments, see page 1 of remarks, filed 03 February 2006, with respect to the rejection(s) of claim(s) 1-35 under 35 U.S.C 103 in view of the Yin reference have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of new reference by Kim II.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,969,897 to Kim II. Referring to Fig. 1 and its description, Kim teaches an optoelectronic device employing fibers for light collection and emission comprising a substrate 12, fibers 18 fixed on the substrate 12 via an adhesive layer 14, wherein the substrate 12 surface may have an antireflective coating (col. 6, lines 47-50) and the fibers 18 may comprise an electroluminescent polymer. (Col. 8, lines 6-18) Although Kim does not discuss the percentage of light transmitted by the antireflective coating, it is well known in the art antireflective coating is applied to optical elements to increase light transmitted and decrease light reflected. For example, U.S. Patent 4,535,026 to

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Yoldas et al. teaches an applied antireflective coating that allows more than 99% of optical transmission. It would have been obvious to one of ordinary skill in the art at the time the invention was made to increase the amount of optical transmission, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. The motivation would be to allow optimum or maximum amount of light to be coupled between the fiber/substrate interface.

Claims 4-15 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim. Kim teaches all the structural limitations of the invention including an optical fiber and a substrate with AR coating adhered thereon except for a particular material for the adhesive. It would have been obvious to one having ordinary skill in the art at the time the invention was made to select any of the materials capable of adhesion function, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of necessary choice. In re Leshin, 125 USPQ 416. The motivation would be to adhere the substrate and the optical fiber more securely, with better durability, with cheaper materials, etc.

Claims 16-30 and 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim. Kim teaches all the structural limitations of the invention including an optical fiber and a substrate with AR coating adhered thereon except for a particular material for the substrate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to select any of the materials capable

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of light transmission function, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of necessary choice. In re Leshin, 125 USPQ 416. The motivation would be to use a high transmission materials that is cheaper, has better durability, etc.

Claims 16-30, 32, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim. Kim teaches all the structural limitations of the invention including an optical fiber and a substrate with AR coating adhered thereon except for a particular material for the substrate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to select any of the materials capable of light transmission function, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of necessary choice. In re Leshin, 125 USPQ 416. The motivation would be to use a high transmission materials that is readily available, cheaper, has better durability, etc.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlie Peng whose telephone number is (571) 272-2177. The examiner can normally be reached on 9 am - 6 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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